# SBC/AT&T: Preliminary Analysis of Competitive Effects

## Professor Simon J. Wilkie California Institute of Technology

Docket 05-65 May 9, 2005

# Competitive Issues

• Direct horizontal overlap in markets for wholesale local facilities

- Adverse effects in retail markets
  - Voice and data services purchased by businesses (large, medium, and small)

### Wholesale Local Facilities

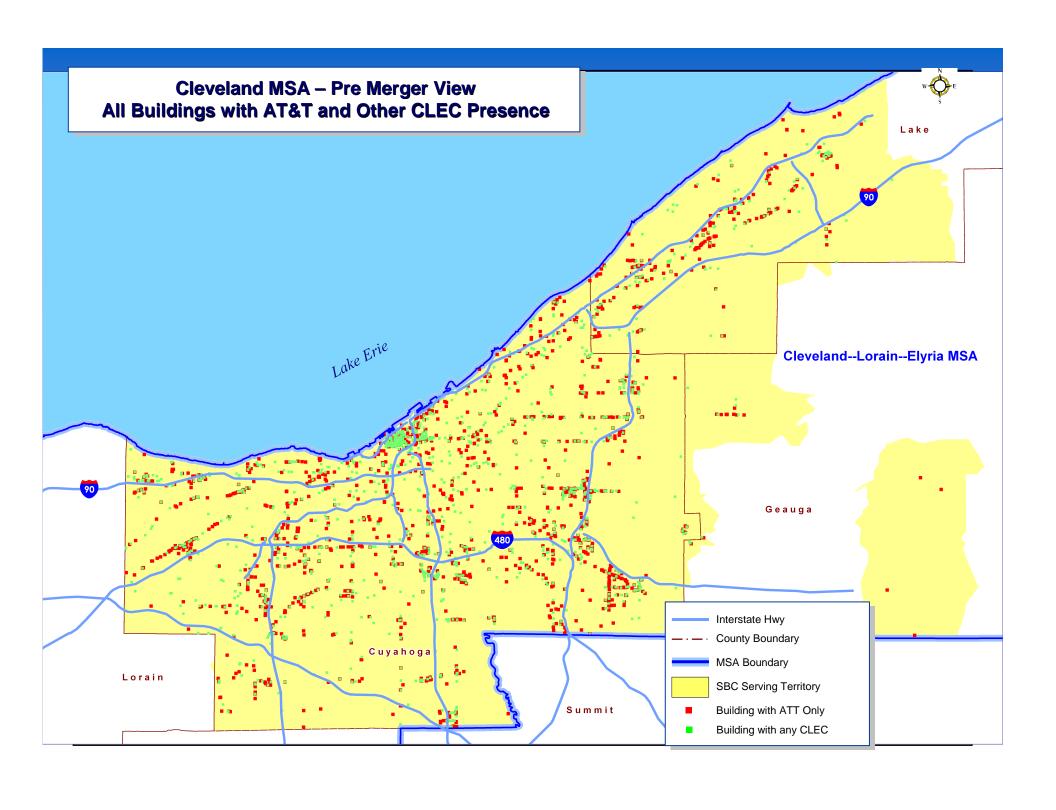
- Possible relevant product markets
  - "Loop": transporting voice and data from the customer's premises to the closest central office ("CO")
  - "Local Transport": transporting voice and data from CO to CO ("interoffice transport") and/or CO to carrier's point of presence ("POP")
  - Wholesale customers sometimes buy the combination of loop and local transport ("Local Access")

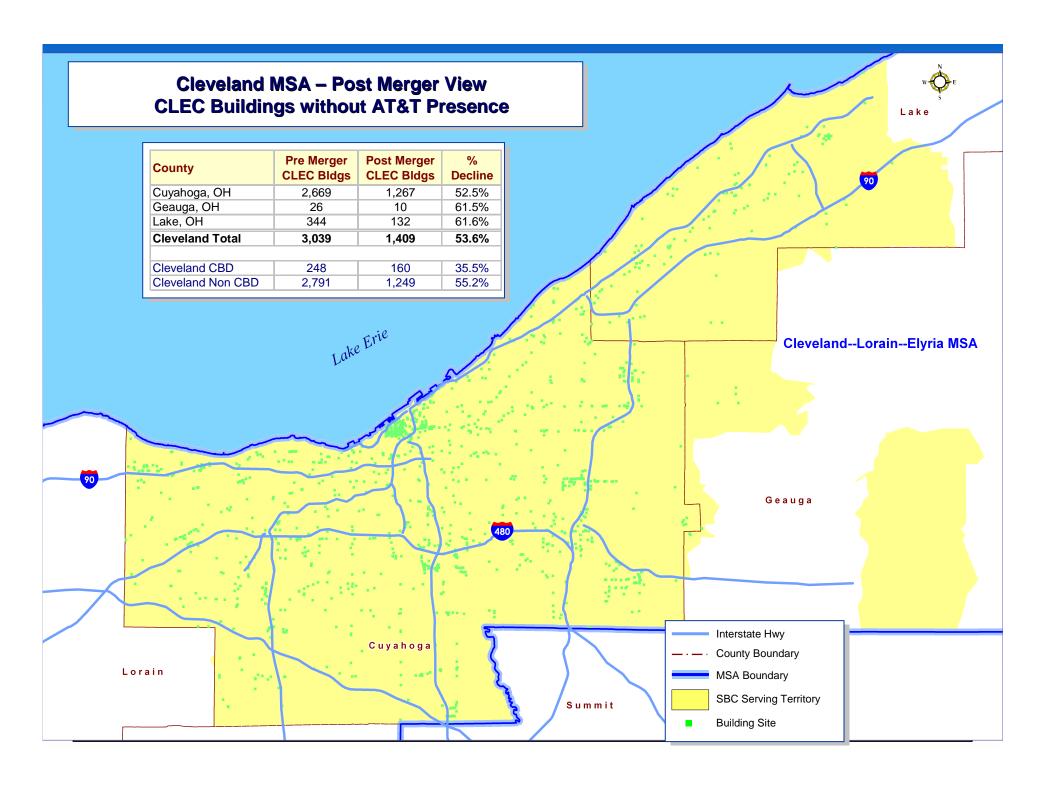
# Loop Market

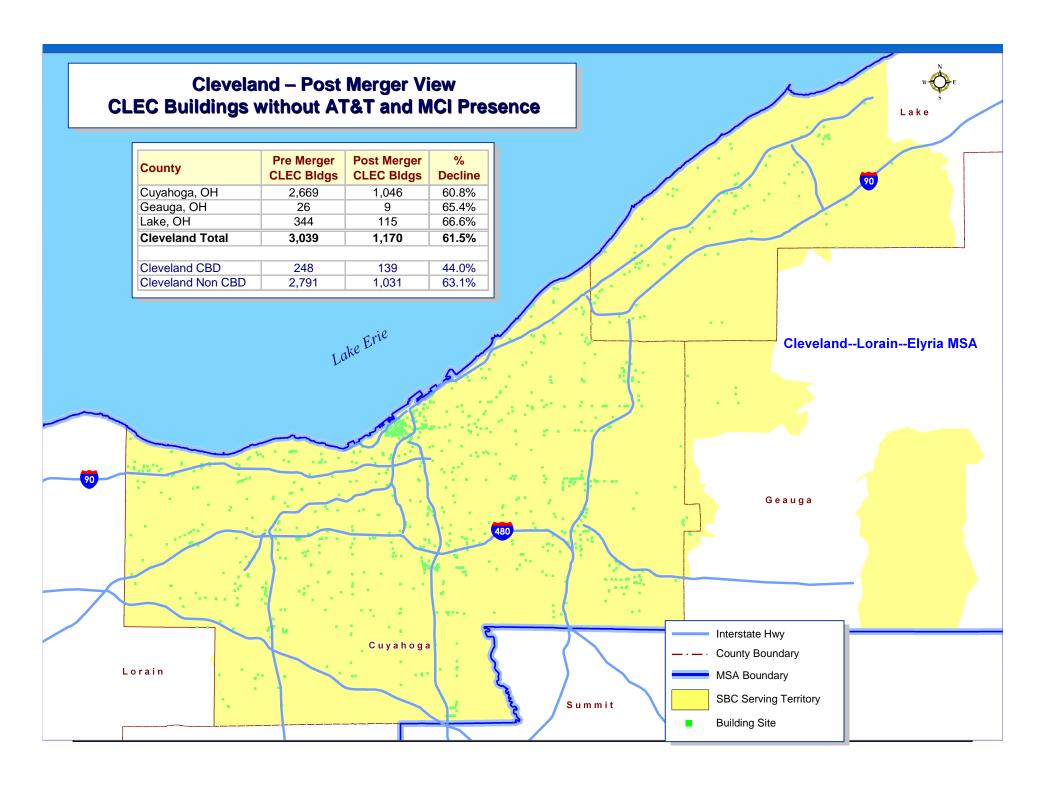
- Relevant geographic markets
- Buyers are carriers CLECs, IXCs, DLECs
- Suppliers are ILEC and CLECs

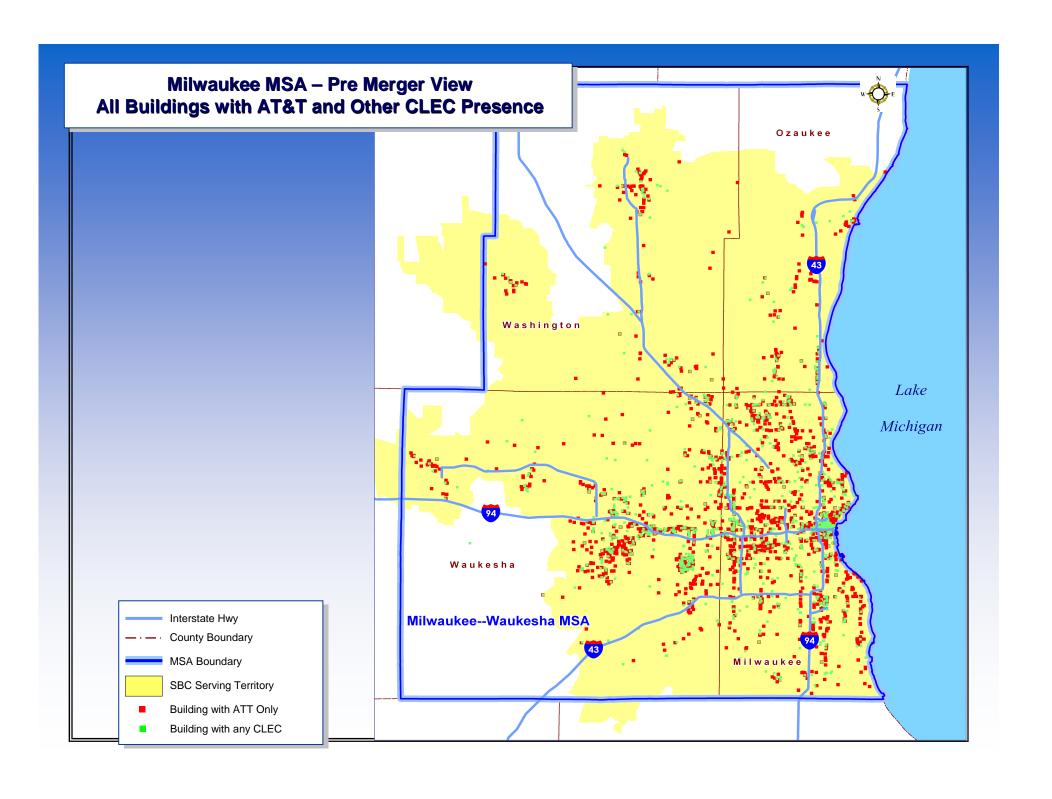
# Loop Market

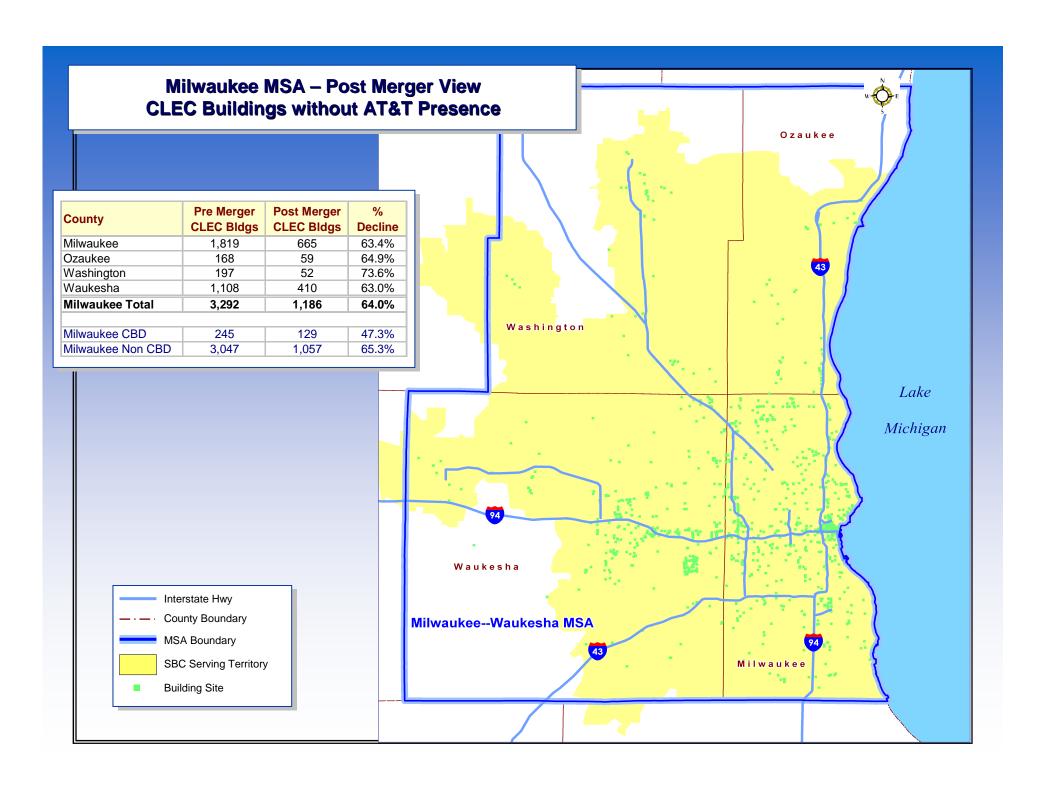
- Measuring market structure
  - Collected data on bandwidth demand by building (GeoResults)
  - Collected CLECs' "lit building lists"
- Assigning market shares
  - Assume ILEC serves all buildings in its service area
  - Lit building lists show which CLECs provide wholesale service to specific buildings

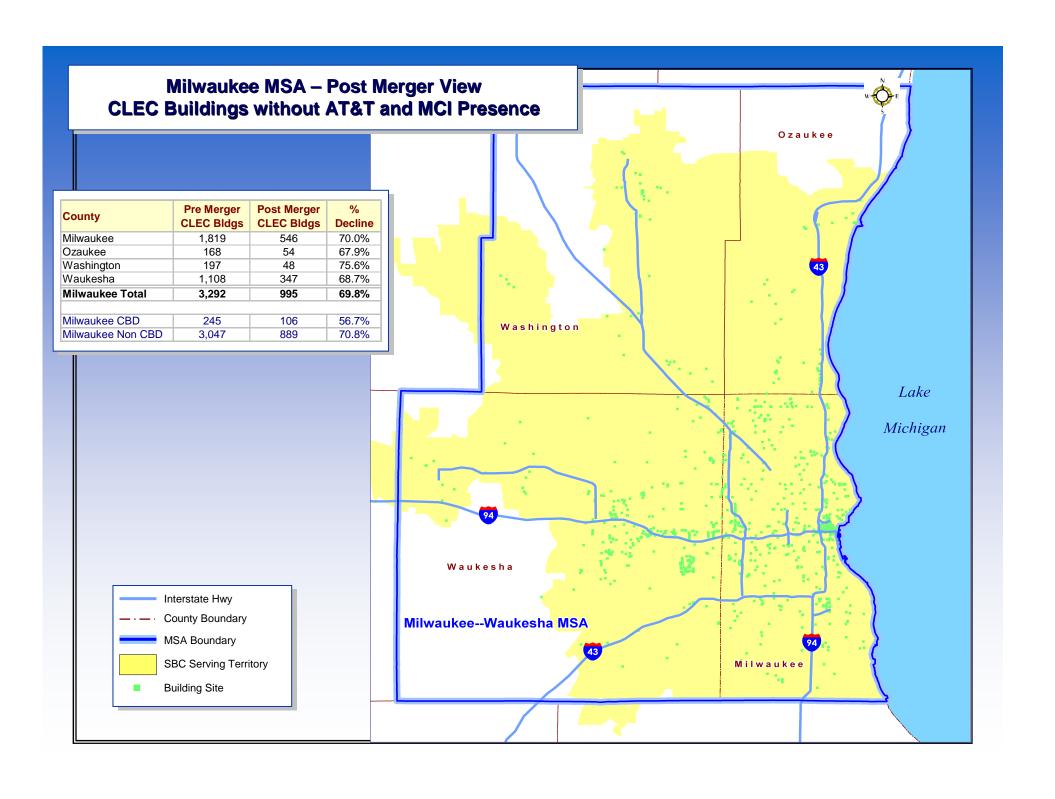












# Loop Market HHIs Lit Buildings in Chicago

Criterion for Including	Number of	Pre-	Post-	Change in HHI	Market Shares (%)		
Buildings	Buildings	Merger HHI	Merger HHI		SBC	AT&T	MCI
All Buildings	241,726	7,005	7,800	795	83.2	4.8	7.2
Top five percent of buildings by bandwidth demand	11,198	5,876	6,928	1,052	75.6	7.0	10.5
Building bandwidth demand at least T3	331	3,670	5,300	1,630	55.5	14.7	18.4
Building bandwidth demand at least OC3	93	3,240	4,837	1,597	50.1	15.7	18.7

Source: GeoResults and Competitive Provider Lit Building Lists

# Local Transport Market

- Relevant geographic markets
- Buyers are competitive carriers, typically CLECs
- Suppliers are ILEC and CLECs

# Local Transport Market

- Measuring market structure
  - Collected data on carriers' responses to CLEC's request for information
  - Data are offers by carriers to supply circuits
- Assigning market shares
  - Assume ILEC can provide all circuits in its service area
  - Number of DS1 or DS3 circuits offered by a CLEC in a geographic area

# Local Transport Market HHIs in Chicago MSA (By Capacity)

Product	Pre-Merger HHI	Post-Merger HHI	Change in	Market Shares (%)		
			ННІ	SBC	AT&T	MCI
DS1	3,125	5,351	2,226	47.4	23.5	15.0
DS3	3,125	5,351	2,226	47.4	23.5	15.0

Source: Carrier responses to Request for Information issued by a Competitive Provider

## Summary of Market Structure

- Loop market highly concentrated
  - Primary buyers are IXCs and CLECs serving large business customers
- Local transport market highly concentrated
  - Primary buyers are CLECs serving small and medium business customers

### Evaluating Merger Effects on Prices

- Use price data from CLECs on offer prices for specific circuits
  - Price data for loop markets
  - Price data for local transport markets

# Example of Offer Prices for a DS1 Circuit (Loop Market)

Carrier	Own Facilities	MRC (\$/mo.)	NRC (\$)	Winner
SBC	Yes	1,028	646	No
АТ&Т	No	350	100	Yes
MCI	No	400	225	No
Sprint	No	365	225	No

Source: Competitive Provider

# Example of Offer Prices for Fast Ethernet (Loop Market)

Own Facilities	MRC (\$/mo.)	NRC (\$)	
Yes	6,850	3.060	
Yes	2,575	1,220	
Yes	4,000	2,000	
	Yes Yes	Facilities         (\$/mo.)           Yes         6,850           Yes         2,575	

Source: Competitive Provider

# Example of CLEC Purchasing DS1 Circuits (Local Transport)

- CLEC received bids for approximately 100 circuits
- MCI was the low bidder for approximately 2/3 of the circuits
- For those circuits, the difference between MCI's bid and the second-lowest bid was more than \$100 per DS1 circuit per month

# Summary of Price Effects in Loop and Local Transport Markets

- Winning bids are on average 50 percent to 60 percent lower than ILEC special access charges
- The RBOC is almost never the lowest bidder
- AT&T and MCI are by far the most frequent bidders
- AT&T or MCI is the low price bidder most of the time
- There is a significant difference between the winning price and the second-lowest price

#### Unilateral Effects: Wholesale Markets

- Large increases in SBC/Verizon market shares in loop and local transport markets
- Largest supplier acquiring second or third largest supplier
- Estimate wholesale price effects using auction theory

- ILECs and CLECs offer differentiated products
  - Retail prices are a mark-up above marginal costs
- CLECs' marginal costs increase
  - Result is higher equilibrium retail prices
- Increases in marginal costs may foreclose CLECs from serving retail business customers
  - Business customers no longer able to select their first choice of suppliers
- Both effects harm retail business customers

- Many suppliers of voice and data services use their own facilities
- Retail markets not regulated
- Prices accurately reveal buyers' valuations and sellers' costs

- Efficiencies claimed by SBC/AT&T and Verizon/MCI will not affect their marginal costs
  - Any efficiencies will not be passed on to consumers in the form of lower prices

- Claim: SBC/AT&T and Verizon/MCI mergers will result in two efficient, vertically integrated retail suppliers that will compete vigorously on price in all locations
- Response: Not correct, SBC/AT&T will continue to be reliant on Verizon for loop/local transport services in Verizon's service area
- Verizon/MCI will continue to be reliant on SBC for loop/local transport services in SBC's service area

- To the extent SBC/AT&T achieve cost savings, Verizon/MCI cannot undercut the resulting prices because it will not achieve cost savings in SBC's service area
- SBC will pocket the cost savings and charge prices in its service area approximately equal to the prices charged by Verizon in SBC's service area

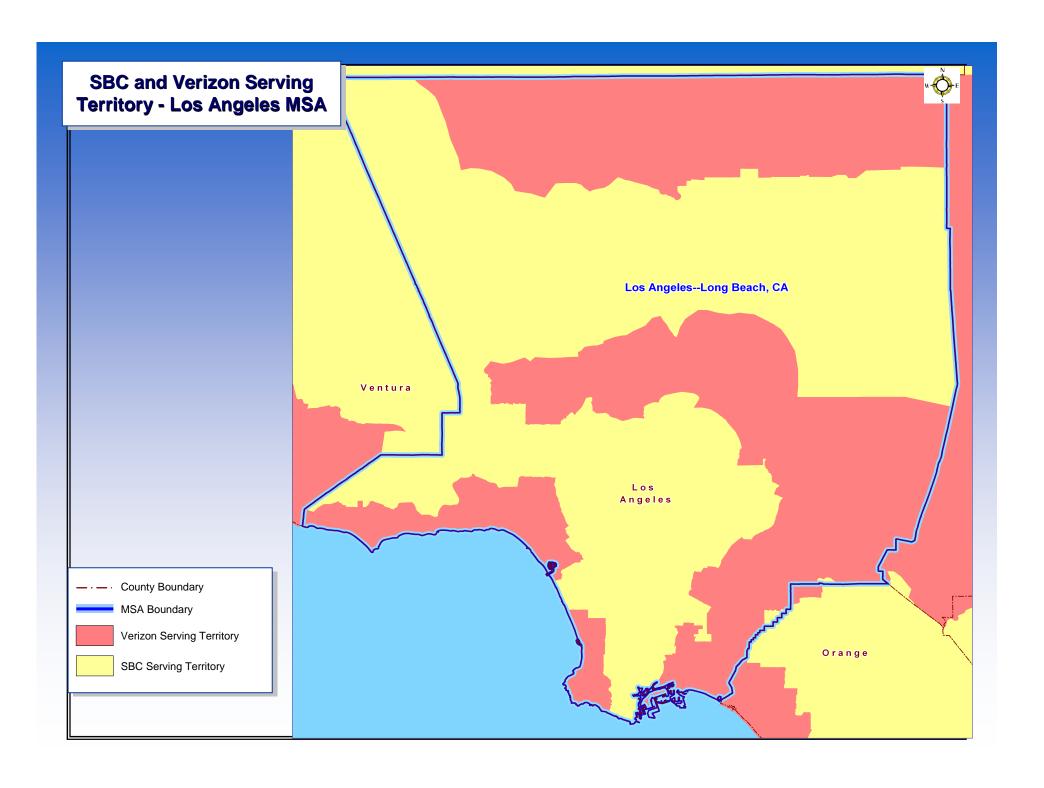
- Assuming the SBC/AT&T and Verizon/MCI mergers result in two efficient, vertically integrated retail suppliers
- Result will be a rise in price to the second most efficient supplier
- Other suppliers would be foreclosed from the market
  - Buyers' demands vary
  - Current suppliers' products are differentiated
  - Explains why so many operate profitably
  - Duopoly outcome will adversely affect business customers by reducing product variety

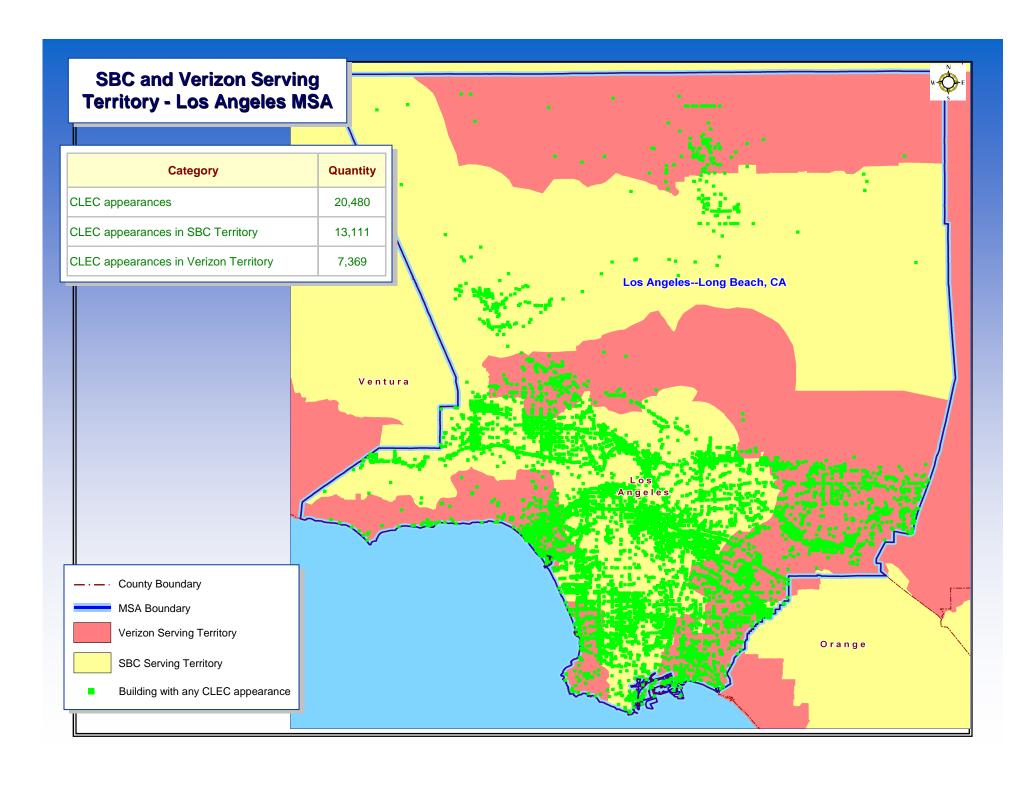
### Coordinated Effects

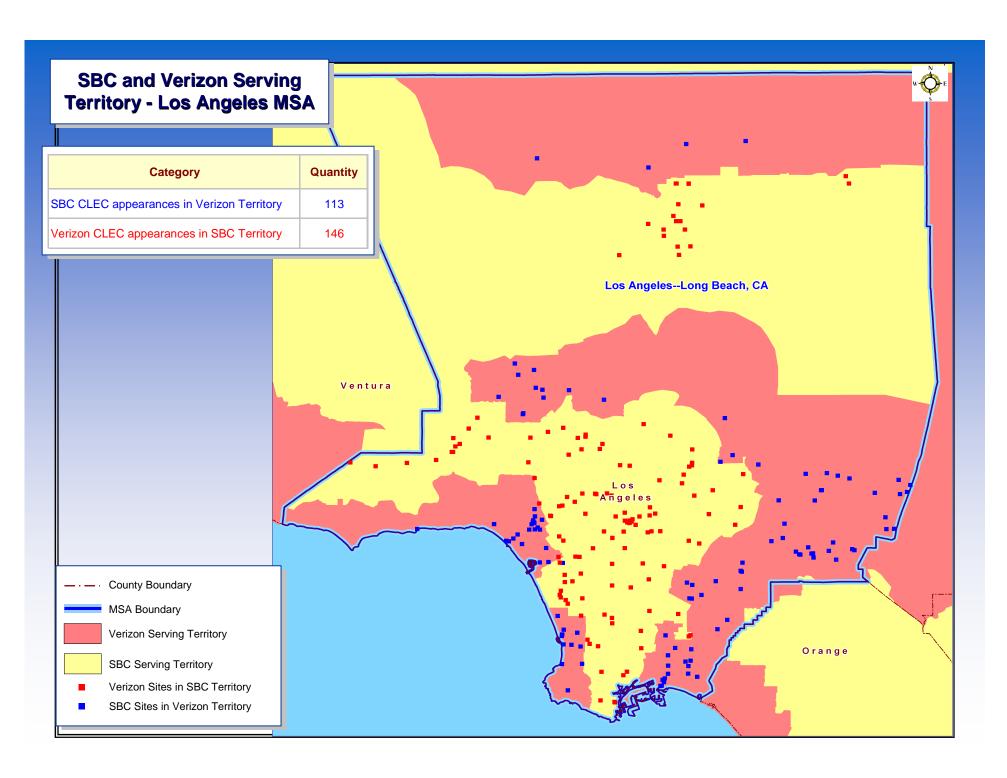
- Make more realistic assumption of post-merger pricing conduct based on past market behavior and economic theory
- Even assuming SBC and Verizon will compete where they both have facilities, this constitutes a small fraction of the area in which they do not both have facilities
- Los Angeles example: SBC and Verizon serve a small number of customers in each other's territories, but tens of thousands of business customers in LA receive service from only one ILEC

### Coordinated Effects

- Likely outcome: mutual forbearance in loop and local transport markets
  - History of such conduct
- Only way to avoid this tacitly collusive outcome would be if SBC and Verizon build local facilities throughout each other's territories
- Not likely given the intense competition that would result







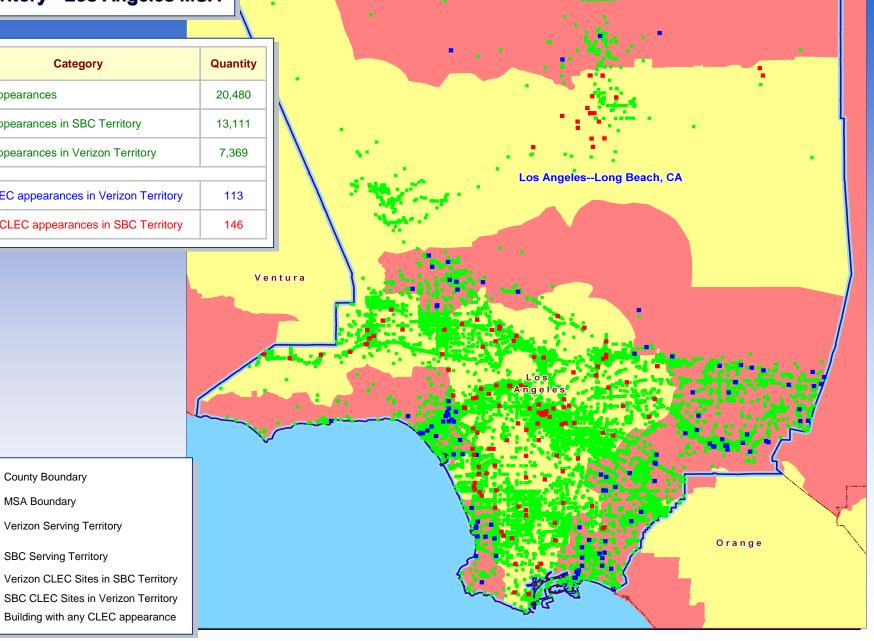
#### **SBC and Verizon Serving Territory - Los Angeles MSA**

Category	Quantity	
CLEC appearances	20,480	
CLEC appearances in SBC Territory	13,111	
CLEC appearances in Verizon Territory	7,369	
SBC CLEC appearances in Verizon Territory	113	
Verizon CLEC appearances in SBC Territory	146	

County Boundary MSA Boundary

Verizon Serving Territory

SBC Serving Territory



# Preliminary Conclusions

- Substantial increases in concentration in already highly concentrated markets
- Significant price increases likely in wholesale markets for local access and local transport
- Significant increases in retail prices paid by business consumers for voice and data services
- History of mutual forbearance